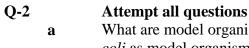
	Enrollm	ent No:		
		C.U.SHAH	I UNIVERSITY	
		Winter Ex	xamination-2018	
	Subject	Name: Discipline Specific Electiv	ve-I (Inheritance Biology)	
	Subject	Code: 4SC05INB1	Branch: B.Sc. (Microbiolo	ogy)
	Semeste	r: 5 Date: 30/11/2018	Time: 10:30 To 01:30	Marks: 70
	(2) 1 (3) 1		•	ohibited.
Q-1		Attempt the following question	s:	(1x14=14
	a) b)	Who is regarded as the father of a The physical expression of traits (genotype/phenotype/allotype)	-	
	c)	An allele is a variant form of a ge	ene. True/False	
	d)	Extra nuclear inheritance is also l (cytoplasmic/karyoplasmic)	known as inheritance.	
	e)	a genome. True/False	A sequence that can change its position	on within
	f)	Drosophila melanogaster is generally dragon/sweet fly).	rally known as (fruit fly	
	g) h)	1	of intermediate inheritance. True/Fal same genotype, the condition is known	
	i) j)	ABO system of blood groups is c	controlled by alleles. (one/tw hods used to identify the locus of a g	
	k)	the distances between genes. True What is telomere?	· ·	
	l)	Turner syndrome is also known a	as 45,X0. True/False	
	m)	<u> </u>	nple of gene inheritance.	
A ++ ==	n)	are fully expressed. (Codominano	in the alleles of a gene pair in a heter ce/Dominance)	ozygote
Attel	mpt any 1	four questions from Q-2 to Q-8		
Q-2	a	Attempt all questions What are model organisms for ex	sperimentation? Explain the propertic	es of E. 7



What are model organisms for experimentation? Explain the properties of E. coli as model organisms for experimentation.

b Briefly explain the law of dominance with suitable example. 7



Q-3	a. b.	Write short notes on- Crossing over Co-dominance	7 7
Q-4	a. b.	Attempt all questions Explain the chromosome theory of inheritance. Draw a well labeled diagram of chromosome and explain the structure of it.	7 7
Q-5	a. b.	Write short notes on- Packaging of DNA Allele	7 7
Q-6		What do you mean chromosomal variations? Explain the types of chromosomal (number) variations with suitable examples.	(4+10
Q-7	a. b.	Attempt all questions Write short assay on extra chromosomal inheritance. What are the properties of <i>A. thaliana</i> which makes it a model plant in genetics?	7 7
Q-8	a. b.	Write short notes on- Homologous recombination Down syndrome	7 7

